

Abstract of the Disclosure

High density longitudinal magnetic recording media are formed with two magnetic layers for enhanced SMNR, high signal, low PW 50 and high resolution. The bilayer magnetic structure comprises a first magnetic layer optimized for SMNR and a second magnetic layer formed directly on the first magnetic layer and optimized for Ms. Embodiments of the present invention include first and second magnetic layers containing Co, Cr and Pt, wherein the first magnetic layer has a higher Cr content than the second magnetic layer and the second magnetic layer has a higher Co content than the first magnetic layer.

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